

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111
Serial Number: 10/717,978
Filing Date: November 20, 2003
Title: LEAD HAVING COMPOSITE TUBING

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IN THE CLAIMS

Please amend the claims as follows:

1-33. (Cancelled)

34. (Previously Presented) A lead assembly comprising:

a lead body extending from a proximal end to a distal end, the lead body including a plurality of conductors disposed therein, wherein at least one of the plurality of conductors includes a braided conductor and at least one of the plurality of conductors includes a coiled conductor;

an outer coating of composite insulative material coated directly on at least one conductor;

at least one electrode electrically coupled with at least one of the plurality of conductors; and

wherein the plurality of conductors includes at least a first conductor disposed within a second conductor, and at least one coating is coated between the first conductor and the second conductor.

35. (Previously Presented) The lead assembly of claim 34, wherein the second conductor includes the braided conductor.

36. (Previously Presented) The lead assembly of claim 34, wherein the first conductor includes the coiled conductor.

37. (Previously Presented) The lead assembly as recited in claim 34, wherein the composite coating comprises a first coating and a second coating coated over the first coating.

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38. (Currently Amended) ~~The lead assembly of claim 34,~~ A lead assembly comprising:
a lead body extending from a proximal end to a distal end, the lead body including a
plurality of conductors disposed therein, wherein at least one of the plurality of conductors
includes a braided conductor and at least one of the plurality of conductors includes a coiled
conductor;
an outer coating of composite insulative material coated directly on at least one
conductor;
at least one electrode electrically coupled with at least one of the plurality of conductors;
and
wherein the plurality of conductors includes at least a first conductor disposed within a
second conductor, and at least one coating is coated between the first conductor and the second
conductor, and wherein the first conductor includes the braided conductor, and the first
conductor is sized and shaped to rotate relative to the second conductor.

39. (Currently Amended) The lead assembly of claim 38, wherein the first conductor includes an active fixation device, and rotation of the first conductor extends the active fixation device relative to the ~~lead body~~ second conductor.

40. (Withdrawn) A lead assembly comprising:
a lead body extending from a proximal end to a distal end, the lead body including one or more conductors disposed therein;
an outer coating of composite insulative material coated directly on the one or more conductors;
at least one electrode electrically coupled with the one or more conductors; and
wherein at least one conductor includes a braided conductor sized and shaped to rotate relative to the lead body, and the braided conductor includes an active fixation device proximate to the distal end of the lead body, and rotation of the braided conductor extends the active fixation device relative to the lead body.

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41. (Withdrawn) The lead assembly of claim 40, wherein the active fixation device includes a helical coil.
42. (Withdrawn) The lead assembly of claim 40, wherein the braided conductor includes a second electrode, and rotation of the braided conductor extends the second electrode relative to the lead body.
43. (Withdrawn) The lead assembly of claim 40, wherein one or more conductors includes at least a first conductor coaxial and non-coradial with a second conductor, and at least one coating is coated between the first conductor and the second conductor.
44. (Withdrawn) The lead assembly of claim 43, wherein the at least one coating is a composite insulative coating.
45. (Withdrawn) The lead assembly of claim 43, wherein the first conductor includes the braided conductor disposed within the second conductor.
46. (Withdrawn) The lead assembly of claim 43, wherein at least one of the first conductor and the second conductor includes a coiled conductor.
47. (Previously Presented) A method comprising:
providing a plurality of conductors including at least a first conductor and a second conductor, wherein at least one of the plurality of conductors includes a braided conductor and at least one of the plurality of conductors includes a coiled conductor;
coupling at least one electrode with one or more of the plurality of conductors;
disposing the first conductor within the second conductor;
coating a first composite insulative material between at least the first conductor and the second conductor; and
coating a second composite insulative material on at least an outer surface of the second conductor.

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48. (Previously Presented) The method of claim 47, wherein disposing the first conductor within the second conductor includes disposing the first conductor including the coiled conductor within the second conductor including the braided conductor.

49. (Previously Presented) The method of claim 47, wherein at least one of coating the first composite insulative material and coating the second composite insulative material includes coating a first layer and coating a second layer over the first layer.

50. (Previously Presented) The method of claim 47, wherein coating the first composite insulative material between at least the first conductor and the second conductor includes coating the first composite insulative material on the first conductor.

51. (Previously Presented) The method of claim 47, wherein coating the first composite insulative material between at least the first conductor and the second conductor includes coating the first composite insulative material on an inner surface of the second conductor.

52. (Currently Amended) ~~The method of claim 47,~~ A method comprising:
providing a plurality of conductors including at least a first conductor and a second
conductor, wherein at least one of the plurality of conductors includes a braided conductor and at
least one of the plurality of conductors includes a coiled conductor;

coupling at least one electrode with one or more of the plurality of conductors;
~~wherein disposing the first conductor within the second conductor includes, and~~ rotatably
coupling the first conductor with the second conductor, and the first conductor is sized and
shaped to rotate relative to the second conductor;

coating a first composite insulative material between at least the first conductor and the
second conductor; and

coating a second composite insulative material on at least an outer surface of the second
conductor.

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53. (Previously Presented) The method of claim 52, further comprising rotating the first conductor, wherein the first conductor includes an active fixation device, and rotating the first conductor extends the active fixation device relative to the second conductor.
54. (New) The method of claim 52, wherein disposing the first conductor within the second conductor includes disposing the first conductor including the coiled conductor within the second conductor including the braided conductor.
55. (New) The method of claim 52, wherein at least one of coating the first composite insulative material and coating the second composite insulative material includes coating a first layer and coating a second layer over the first layer.
56. (New) The method of claim 52, wherein coating the first composite insulative material between at least the first conductor and the second conductor includes coating the first composite insulative material on an inner surface of the second conductor.
57. (New) The lead assembly of claim 39, wherein the active fixation device includes a helical coil.
58. (New) The lead assembly as recited in claim 38, wherein the composite coating comprises a first coating and a second coating coated over the first coating.
59. (New) The lead assembly of claim 38, wherein the first conductor includes the at least one electrode, and rotation of the first conductor extends the at least one electrode relative to the lead body.
60. (New) The lead assembly of claim 38, wherein at least one coating is coated between the first conductor and the second conductor.
61. (New) The lead assembly of claim 60, wherein the at least one coating is a composite insulative coating.

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62. (New) The lead assembly of claim 34, wherein at least one of the outer coating and at least one coating is a spray coating.

63. (New) The lead assembly of claim 34, wherein at least one of the outer coating and at least one coating is a dipped coating.

64. (New) The lead assembly of claim 34, wherein at least one of the outer coating and at least one coating is a brushed-on coating.

65. (New) The lead assembly of claim 47, wherein coating the first composite insulative material between the first conductor and the second conductor includes spray coating the first composite insulative material.

66. (New) The lead assembly of claim 47, wherein coating a second composite insulative material on at least an outer surface of the second conductor includes spray coating the second composite insulative material.